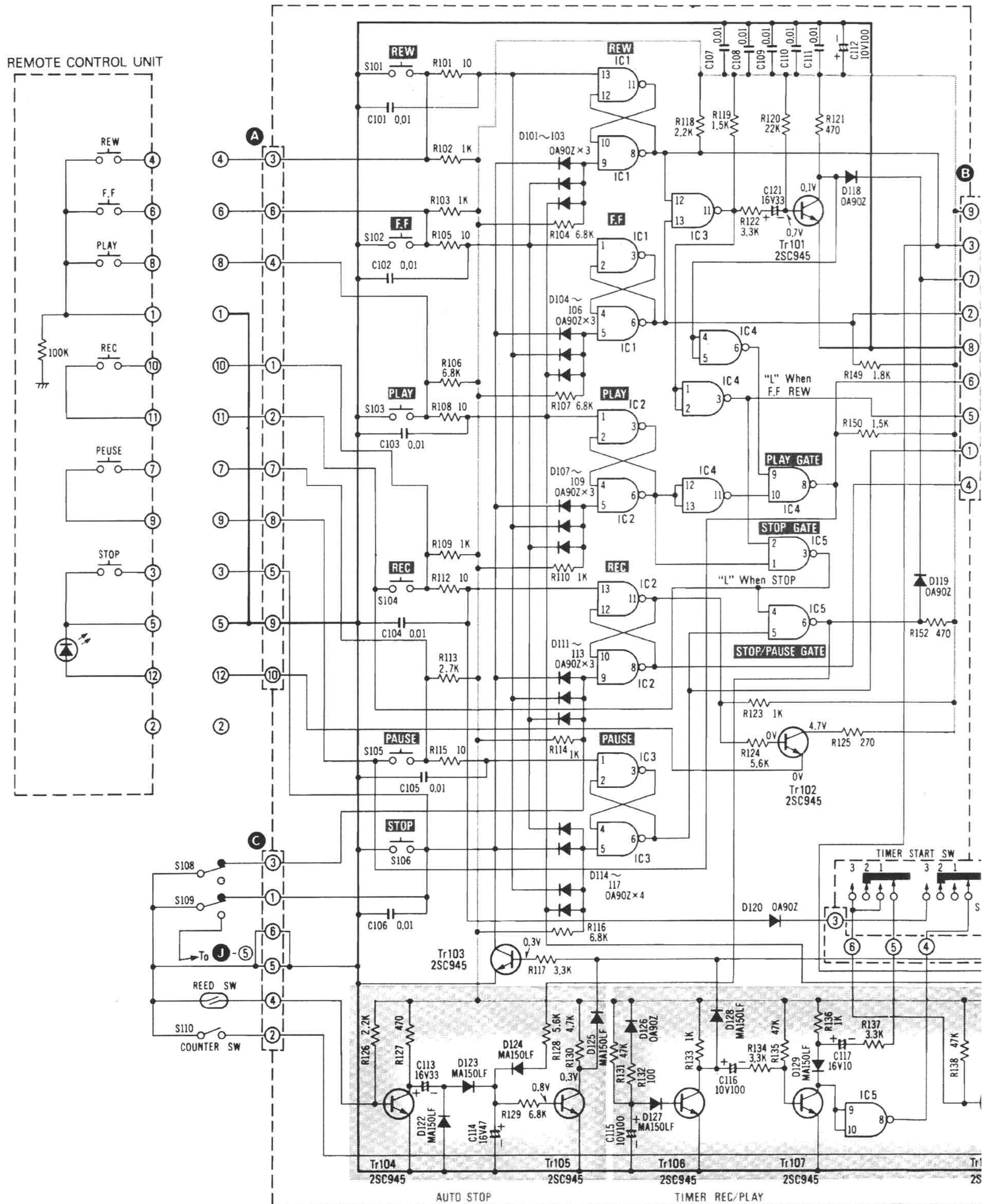
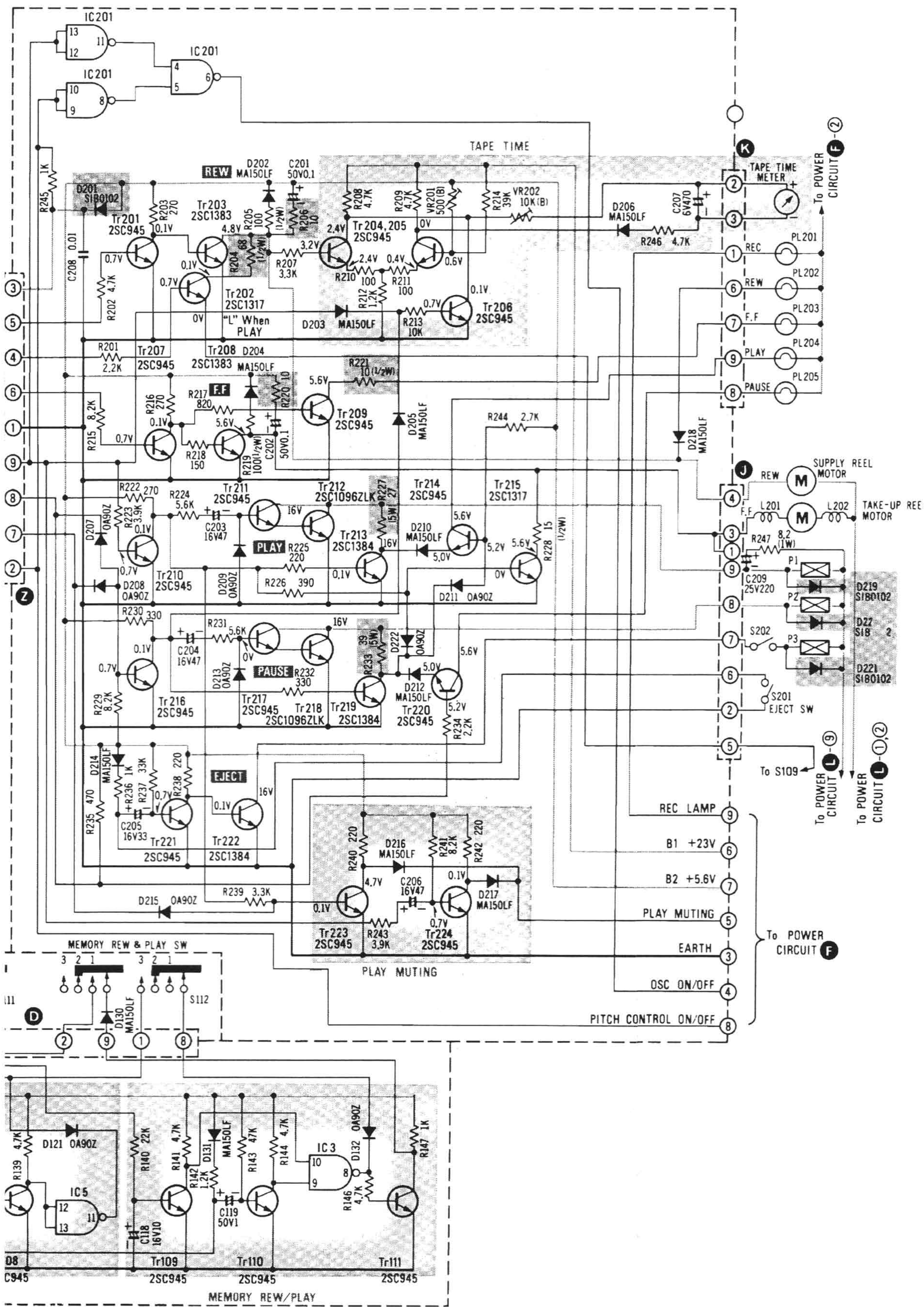


TAPE TRANSPORT UNIT

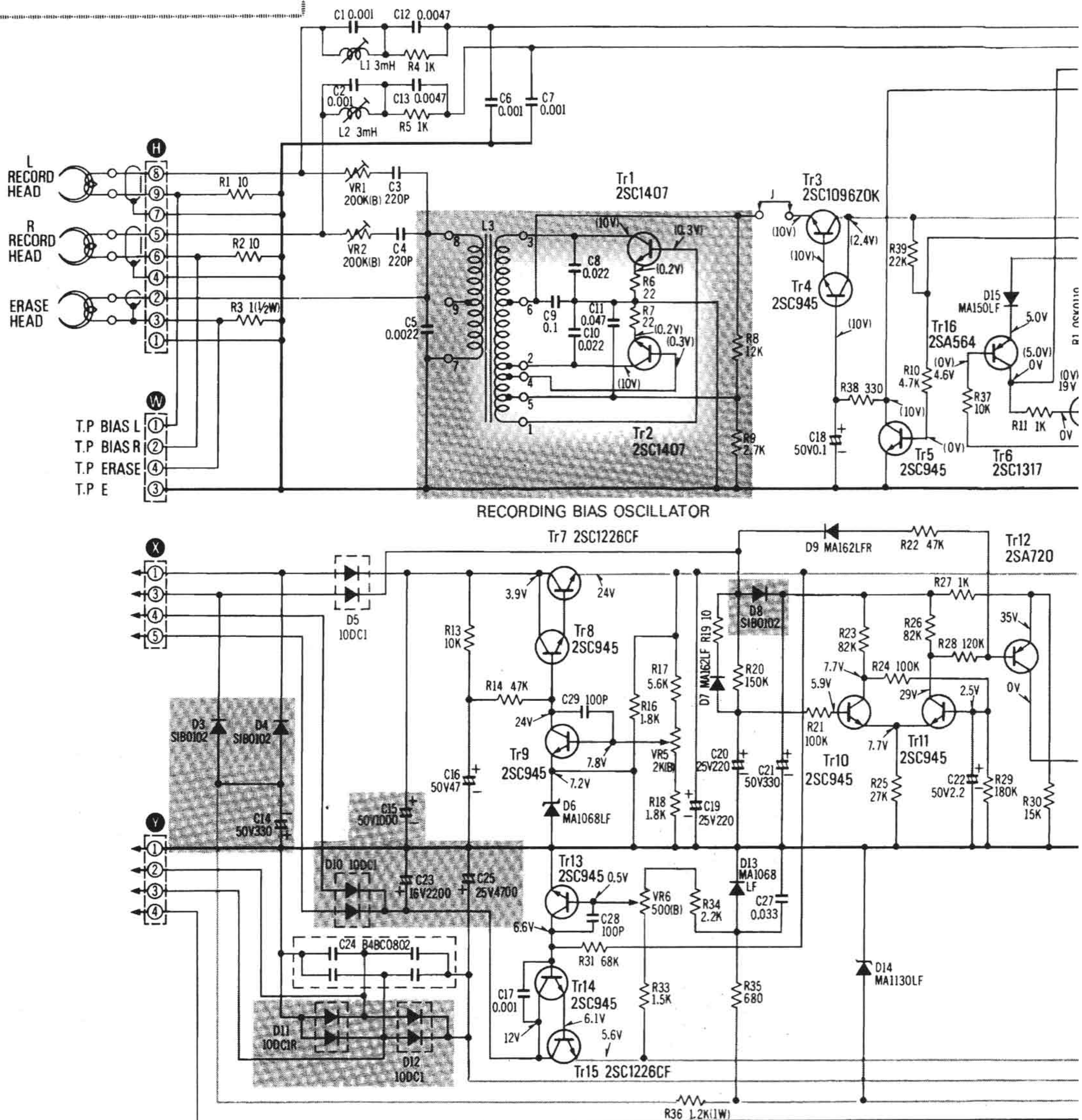
SCHEMATIC DIAGRAM MODEL RS-9900US

CONTROL CIRCUITRY





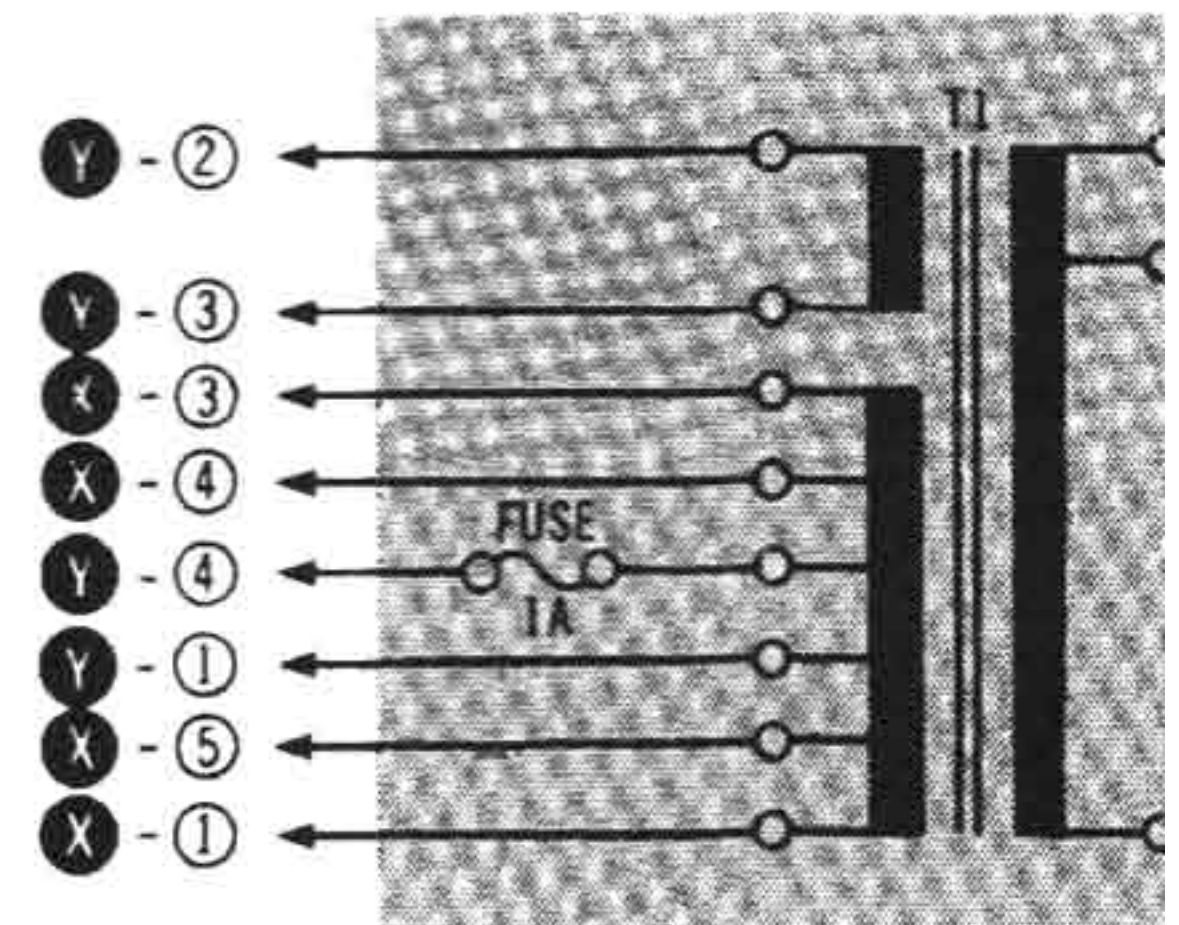
POWER CIRCUITRY

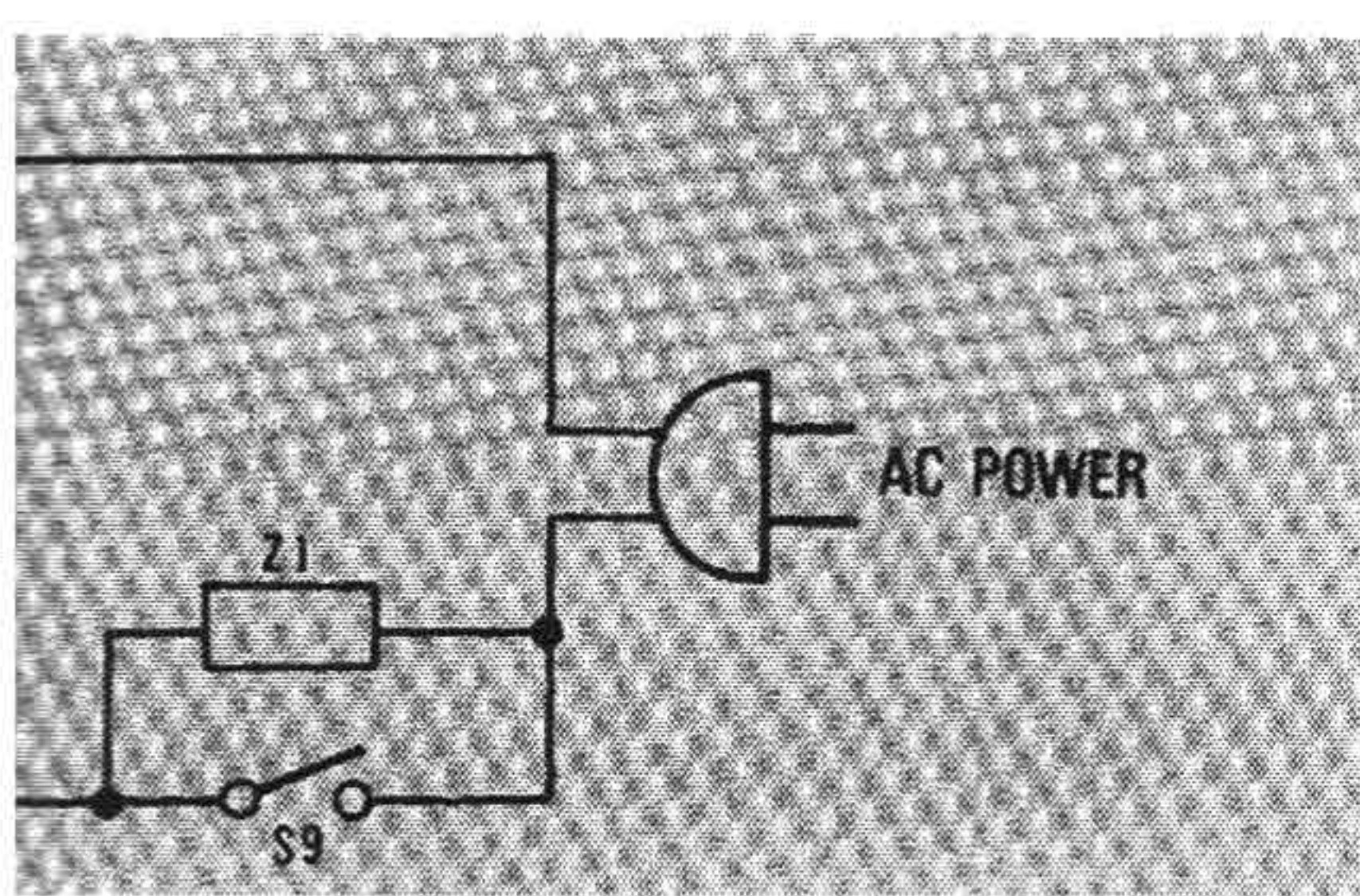
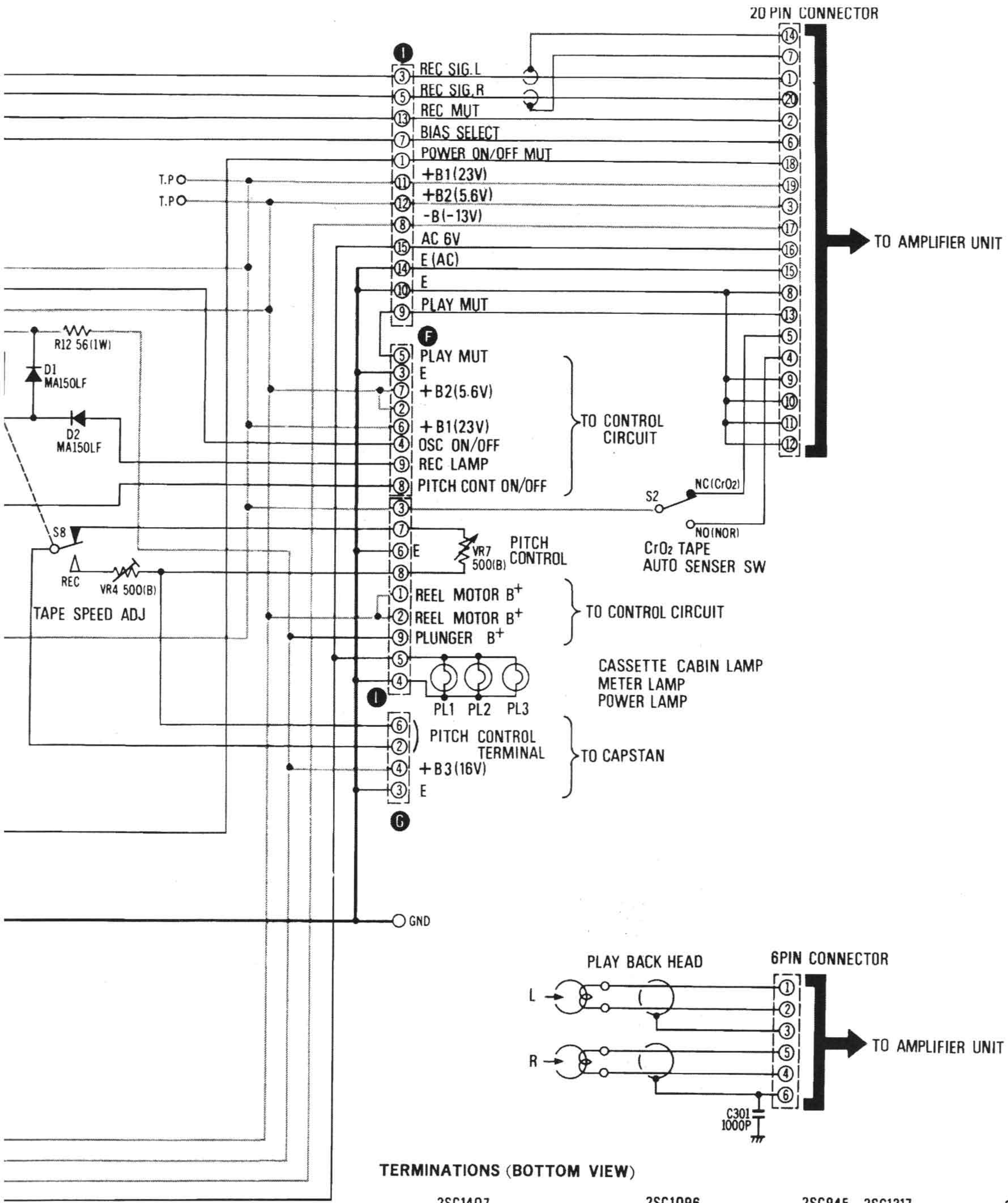


NOTE:

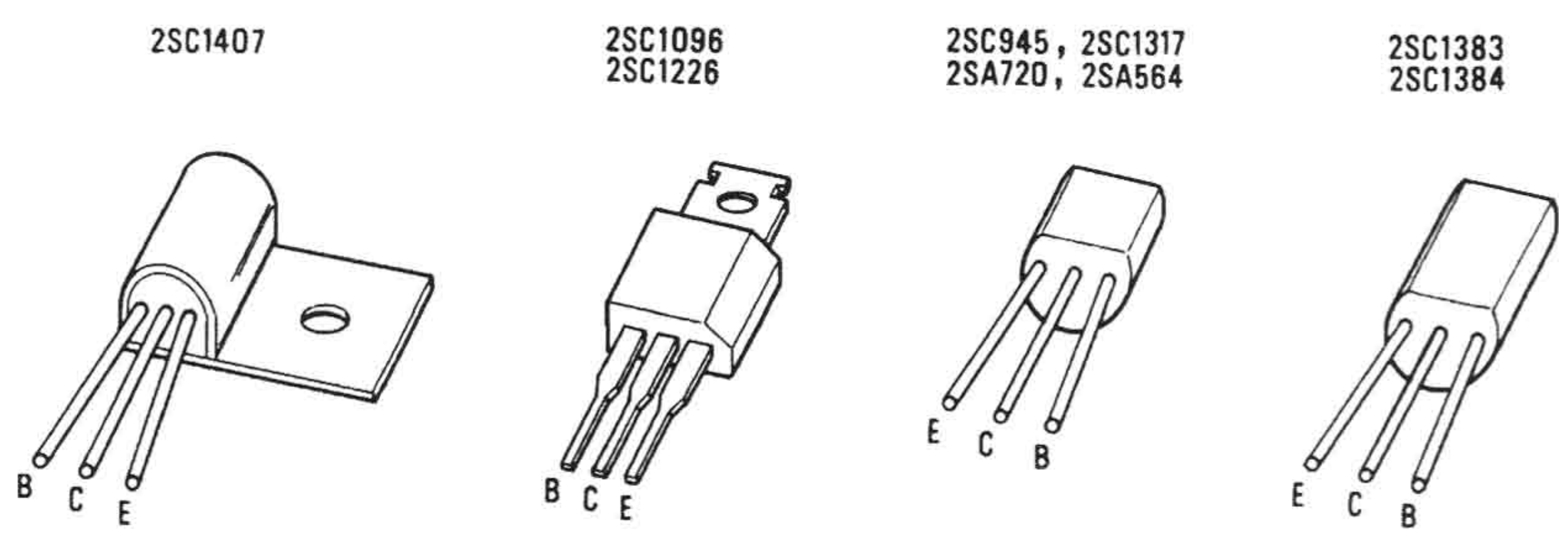
1. S8Relay switch.
2. S9Power ON/OFF switch.
3. S101.....Rewind switch.
4. S102.....FF switch.
5. S103.....Playback switch.
6. S104.....Record switch.
7. S105.....Pause switch.
8. S106.....Stop switch.
9. S107.....CrO₂ tape detecting switch.
10. S108.....Erase safety switch.
11. S109.....Cassette tape detecting switch.
12. S110.....Tape counter switch.
13. S111.....TIMER switch (shown in "OFF" position).
C : Center, 1 : PLAY, 2 : OFF, 3 : REC.
14. S112.....MEMORY switch (shown in "OFF" position).
C : Center, 1 : REW, 2 : OFF, 3 : PLAY.
15. S201.....Eject switch.
16. S202.....Eject prevention switch.
17. VR1, VR2.....Bias current adjustment VR.
18. VR4Tape speed adjustment VR (at record mode).
19. VR5DC voltage adjustment VR (on +B1 line).
20. VR6DC voltage adjustment VR (on +B2 line).
21. VR7Pitch control.
22. VR201, VR202Tape remain meter adjustment VR.
23. PL1Cassette cabin lamp.
24. PL2Power lamp.
25. PL3Meter lamp.
26. PL201Record lamp.
27. PL202Rewind lamp.
28. PL203Fast forward lamp.

29. PL204Playback lamp.
30. PL205Pause lamp.
31. Resistor values are in ohms (Ω), 1/4 watt unless specified
K=1,000 Ω .
32. Capacitor values are in microfarads (μ F) unless specified
P=Pico-farads.
33. All voltage values shown in circuitry are under no signal
at minimum position.
For measurement, use VTVM.
34. Import safety notice.
The shaded area on this schematic diagram incorporates safety
for safety.
When servicing it is essential that only manufacturer's sp
for the critical components in the shaded areas of the sch
35. A-Z indicates the connectors.





TERMINATIONS (BOTTOM VIEW)



erwise.

wise.

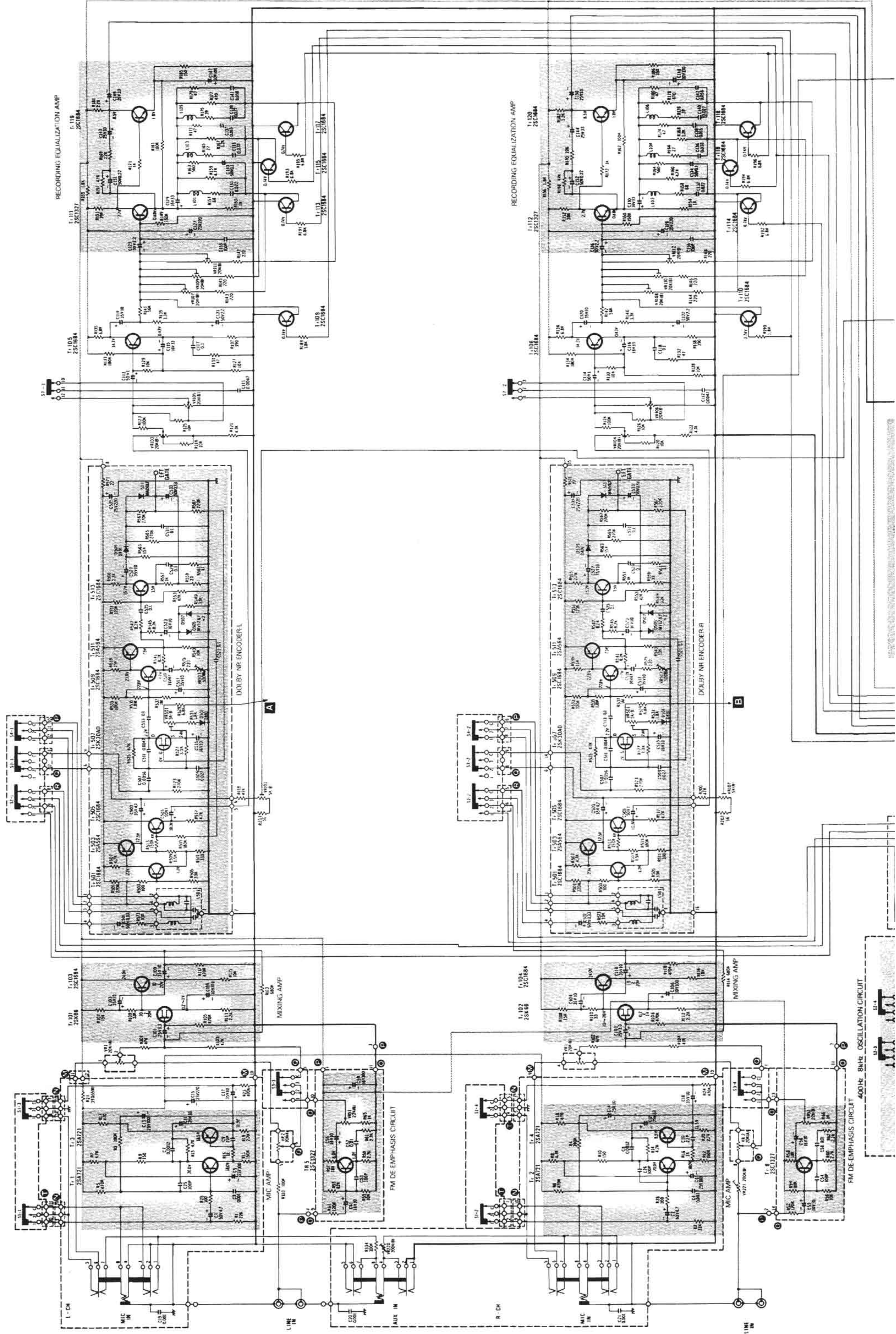
ions with volume

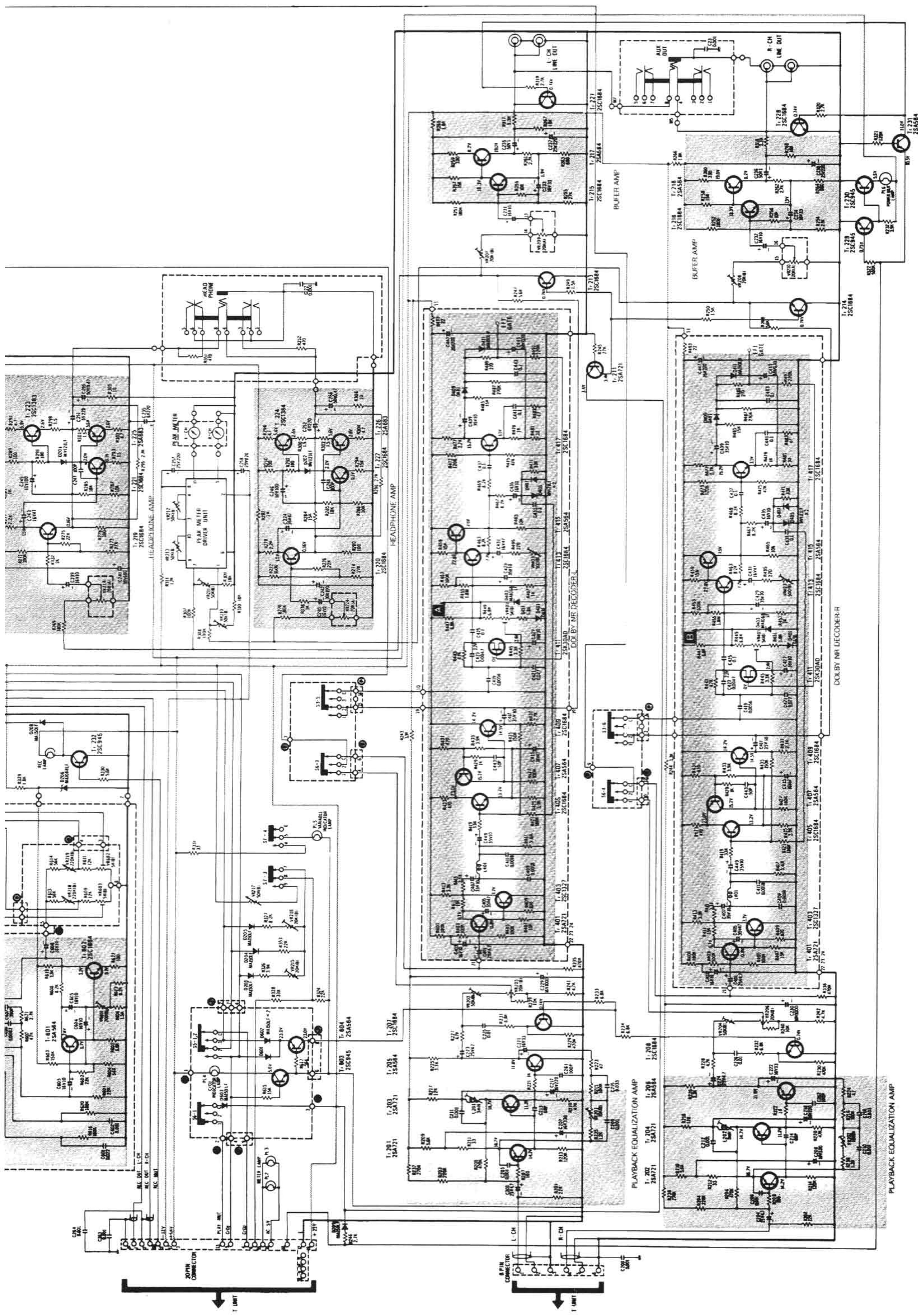
features important

parts be used

c.

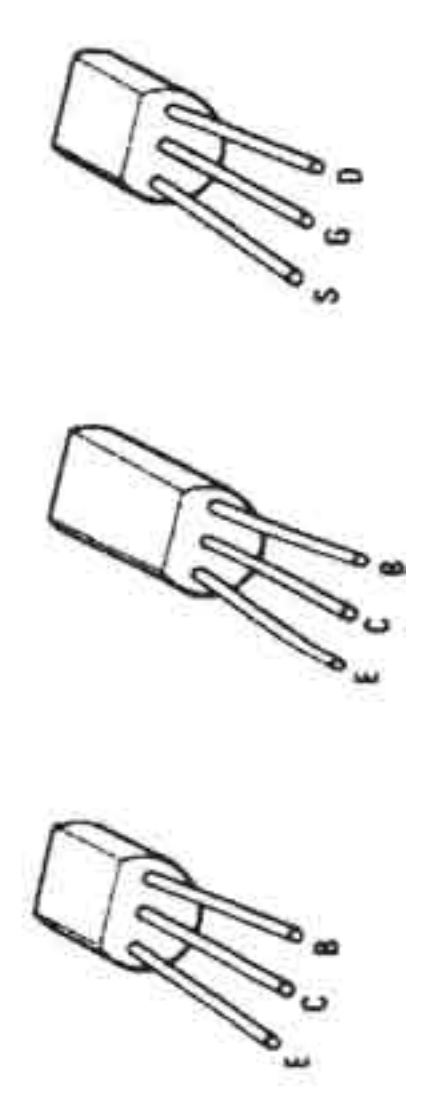
SCHEMATIC DIAGRAM MODEL RS-9900US AMPLIFIER CIRCUITRY





ERMINATIONS (BOTTOM VIEW)

25A721, 25C1327
25C1884, 25A564
25C845



NOTE:

1. S1-1-S1-4 MIC ATT switch (shown in "Off" position)
2. S2-1-S2-2 OSC switch (shown in "Off" position)
3. S3-1-S3-2 DOLBY NR switch (shown in "IN" position)
4. S4-1-S4-2 MPX FILTER switch (shown in "IN" position)
5. S5 TAPE SELECT switch (shown in "NORMAL" position)
6. S6-1-S6-4 MONITOR switch (shown in "TAPE" position)
7. S7-1-S7-2 CAL switch (shown in "PRE SET" position)

8. VR1 MIC/AUX level control
9. VR2 LINE IN level control
10. VR5, VR52 OSC cal adjustment VR
11. VR101, VR102 Monitor level adjustment VR
12. VR103, VR104 DOLBY NR switch (shown in "IN" position)
13. VR105, VR106 Record cal control
14. VR107, VR108 Record EQ control
15. VR109, VR110 Recording equalization adjustment VR (Fe Cr)
16. VR111, VR112 Recording equalization adjustment VR (NORMAL)
17. VR105, VR106 Playback level adjustment VR
18. VR205, VR206 Playback level adjustment VR
19. VR207, VR208 Output level adjustment VR
20. VR209 Output level control

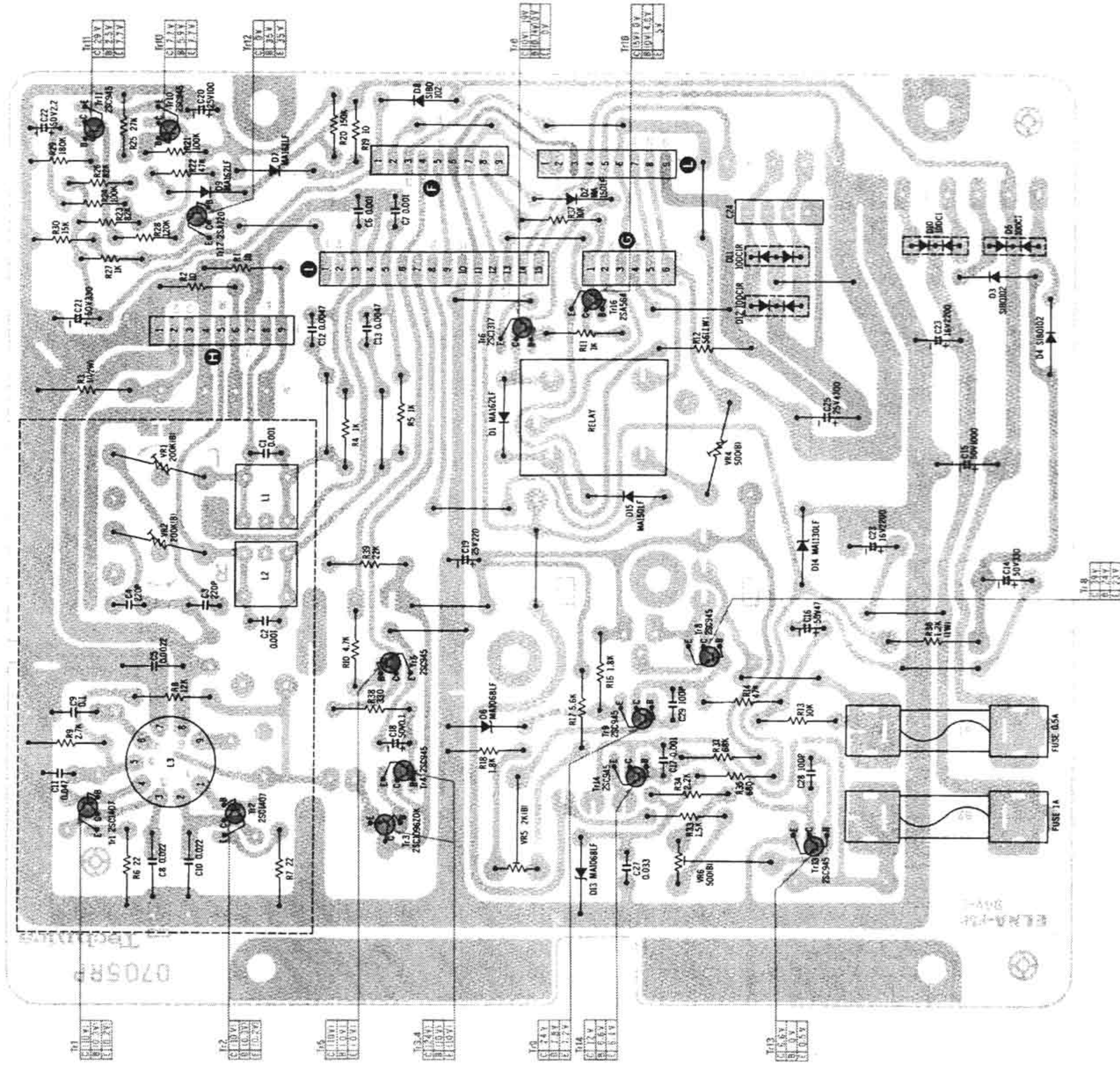
22. VR210, VR211 VU meter adjustment VR (at 0dB)
23. VR212, VR213 VU meter adjustment VR (at -20dB)
24. VR214 Headphone level adjustment VR
25. VR215 Bias current adjustment VR (Fe Cr)
26. VR216 Bias current control
27. VR217 Bias current control
28. VR218, VR219 OSC cal control
29. VR220 AUX input level adjustment VR
30. VR221 LINE IN input level adjustment VR
31. VR601 OSC cal adjustment VR
32. VR602, VR603 Recording peaking adjustment coil (Fe Cr)
33. L101, L102 Recording peaking adjustment coil (NORMAL)
34. L103, L104 Recording peaking adjustment coil (Fe Cr)
35. L105, L106 Recording peaking adjustment coil (NORMAL)

36. L201, L202 Bias trap adjustment coil
37. PL1 Record indication lamp
38. PL2, PL3 Meter lamp
39. PL4 CR2 indicator lamp
40. PL5 Variable indication lamp
41. Resistor values are in ohms (Ω), 1/4 watt unless specified otherwise. K = 1,000.
42. Capacitor values are in microfarads (μF) unless specified otherwise. P = Pico-farads.
43. All voltage values shown in circuitry are under no signal conditions with volume at minimum position.
44. For measurement, use VTVM.
45. ② indicates the connectors.

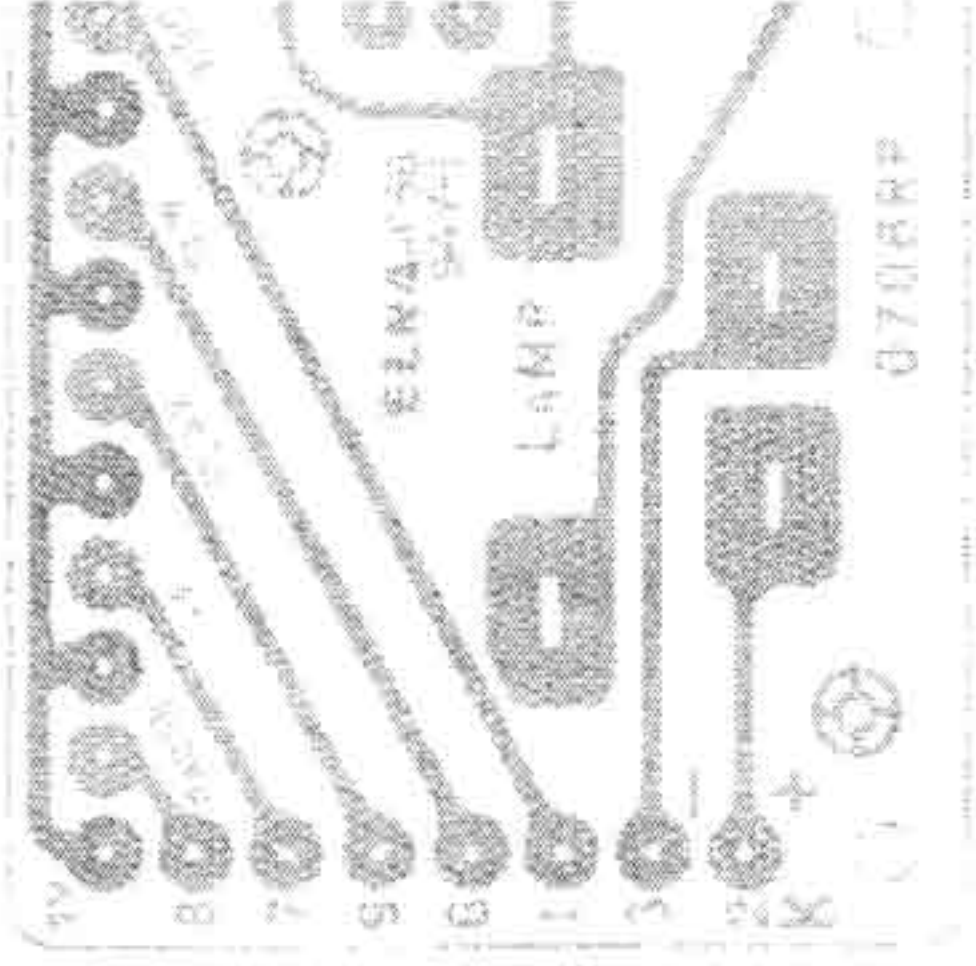
TAPE TRANSPORT UNIT

CIRCUIT BOARD MODEL RS-9900US

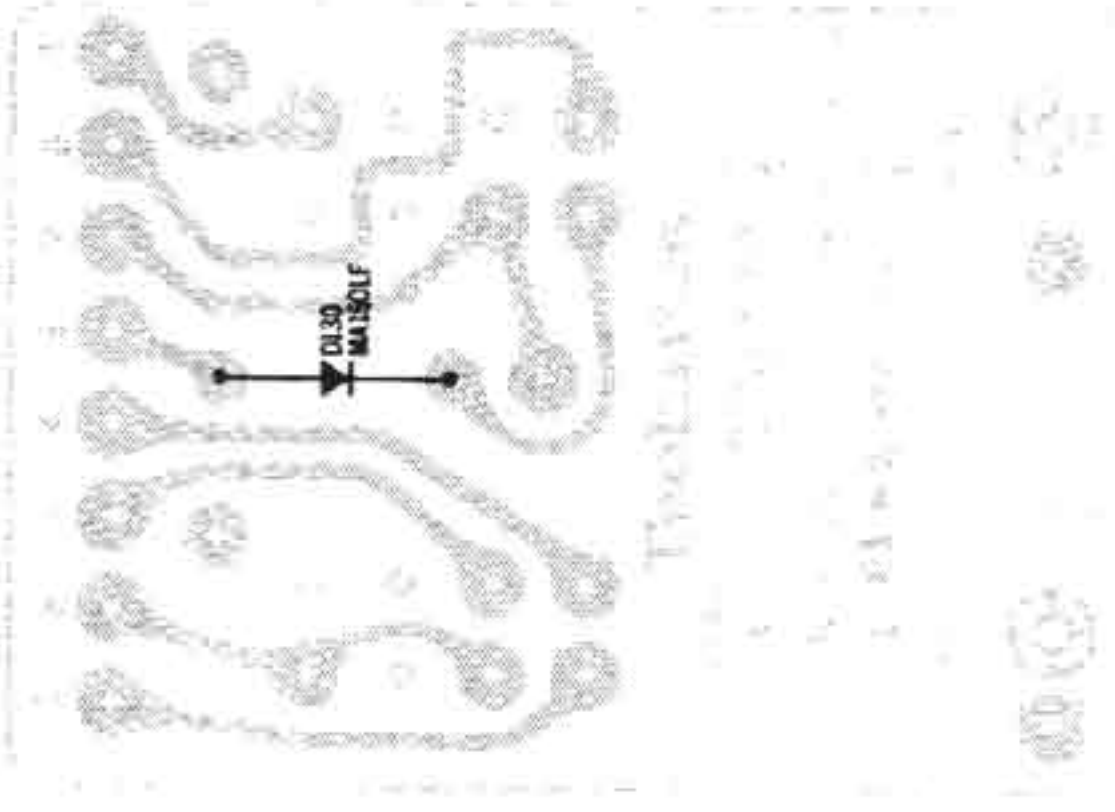
POWER CIRCUIT BOARD



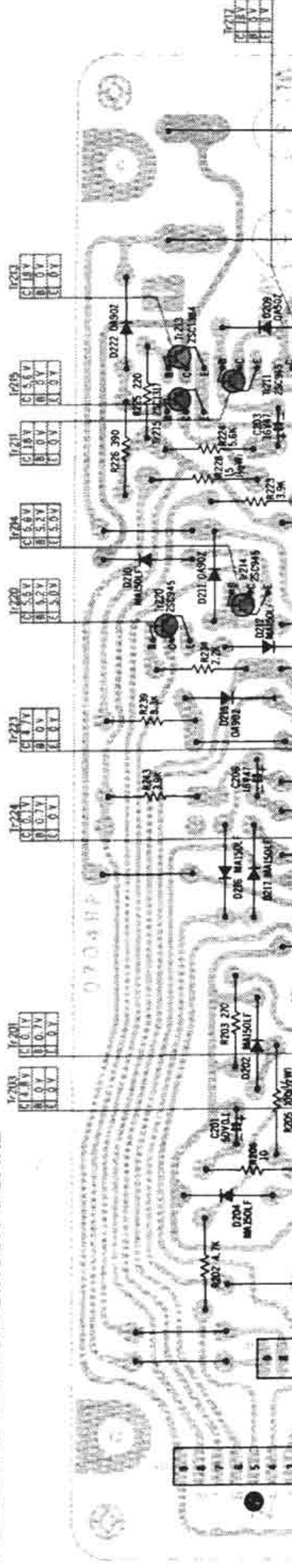
OPERATION CIRCUIT BOARD



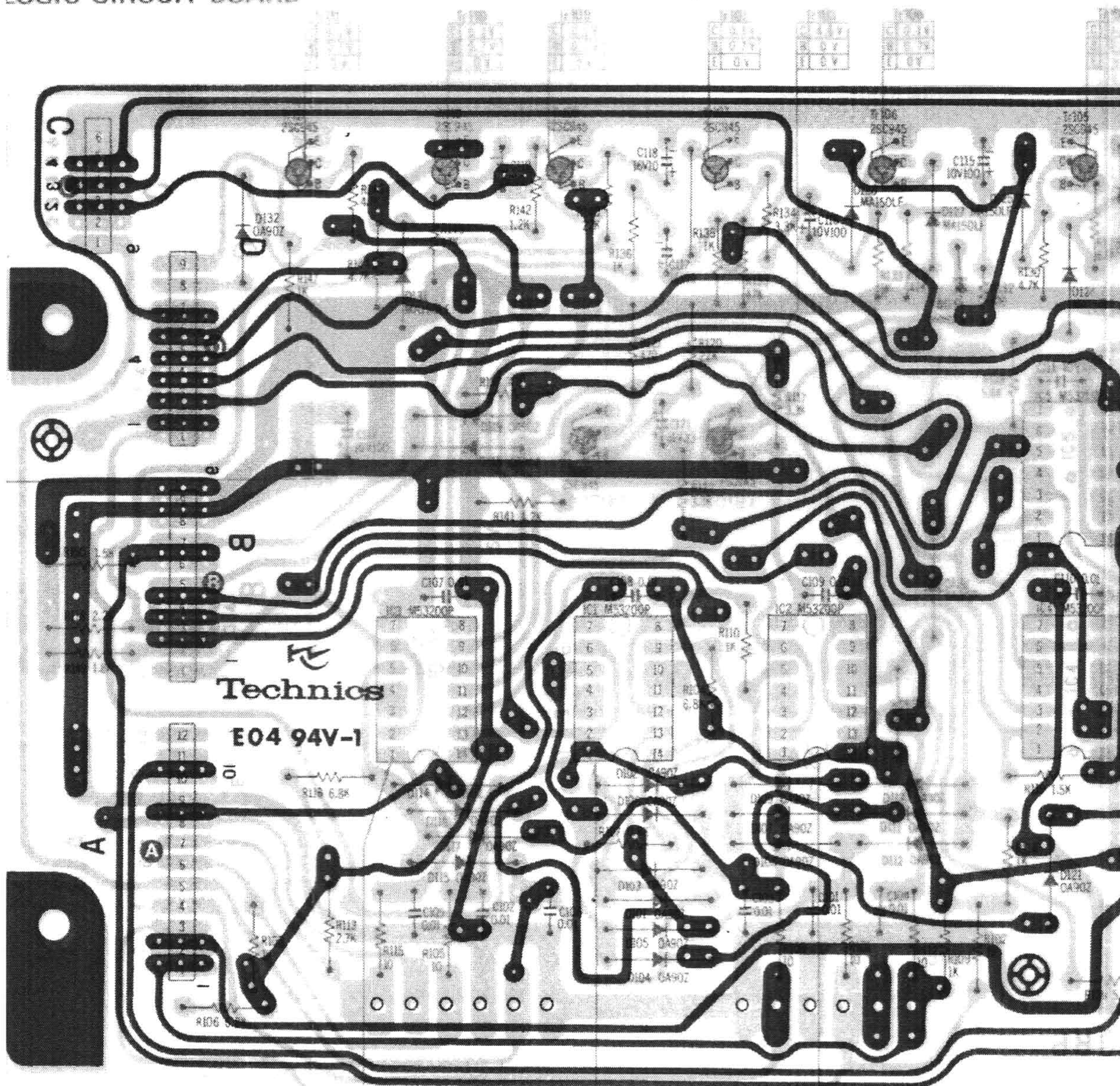
SWITCHES CIRCUIT BOARD

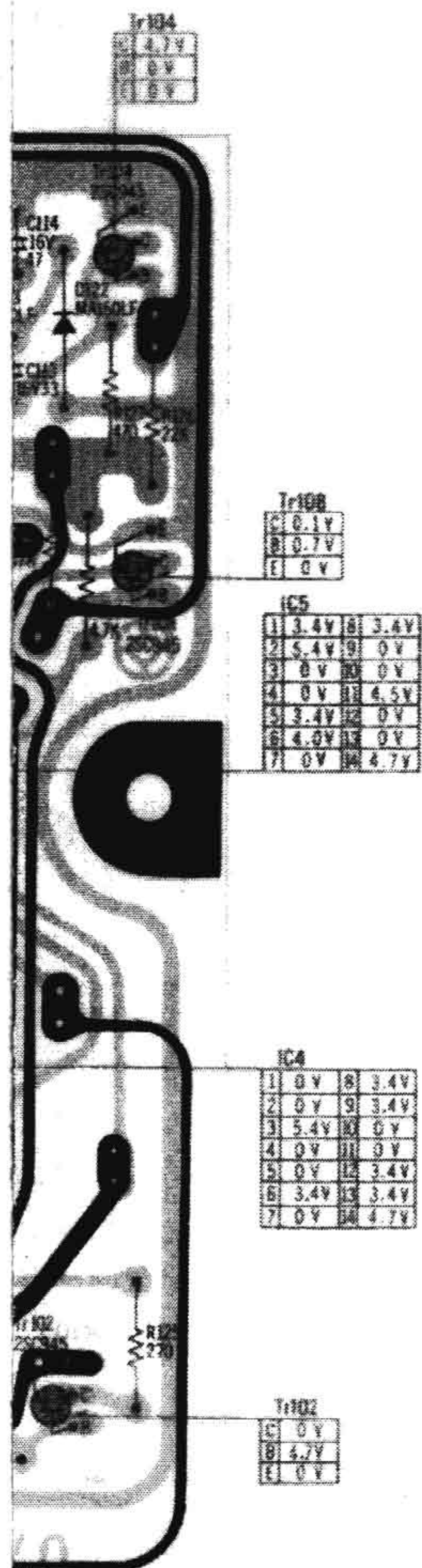


PLUNGER OPERATION CIRCUIT BOARD



LOGIC CIRCUIT BOARD





T-100	
C	0.1 V
B	0.7 V
E	0 V

IC5			
1	3.4V	8	3.4V
2	5.4V	9	0V
3	0V	10	0V
4	0V	11	4.5V
5	3.4V	12	0V
6	4.0V	13	0V
7	0V	14	4.7V

1	0V	8	3.4V
2	0V	9	3.4V
3	5.4V	10	0V
4	0V	11	0V
5	0V	12	3.4V
6	3.4V	13	3.4V
7	0V	14	4.7V

C	0 Y
B	4.1 Y
E	0 Y

NOTE:

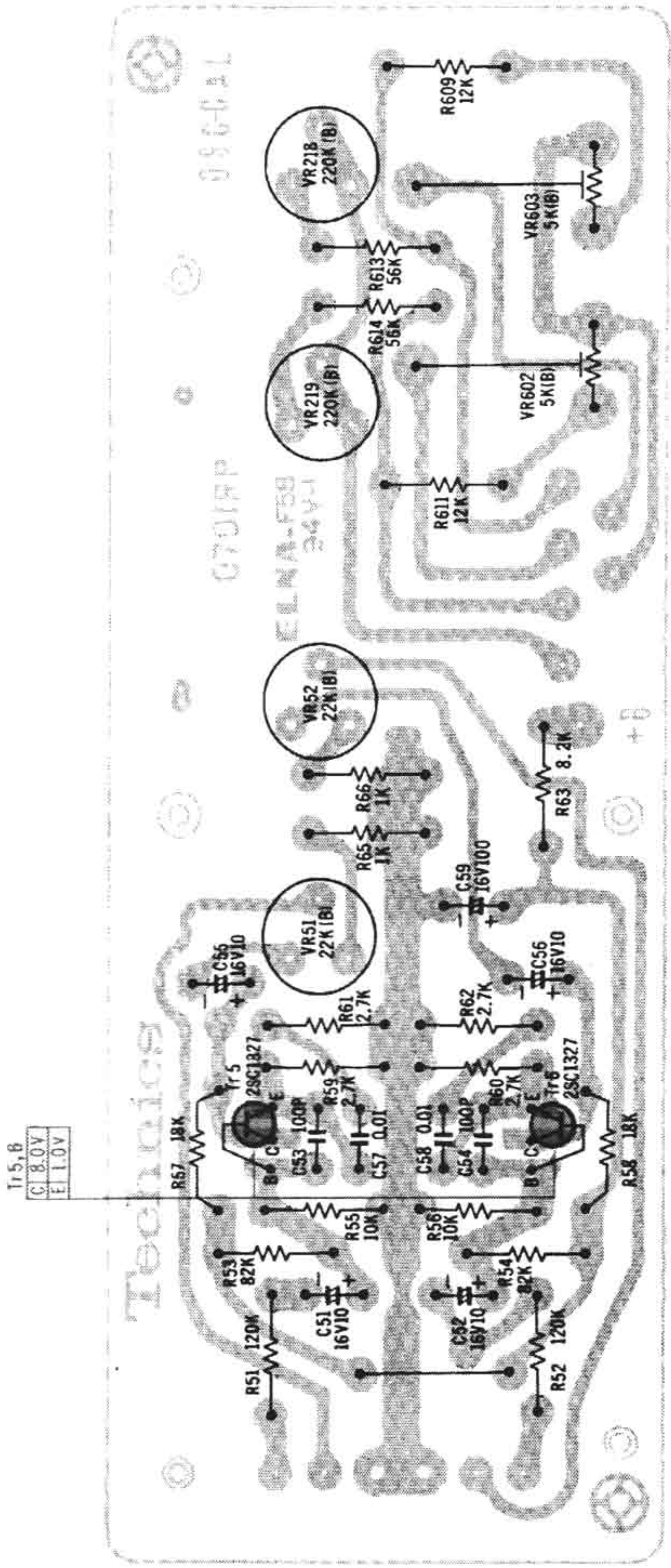
The circuit shown in red on the conductor is B circuit.
Values indicated in are DC voltage between the chassis and electrical parts.

The upper values should be measured during recording and the lower values during playback (Audio circuit).

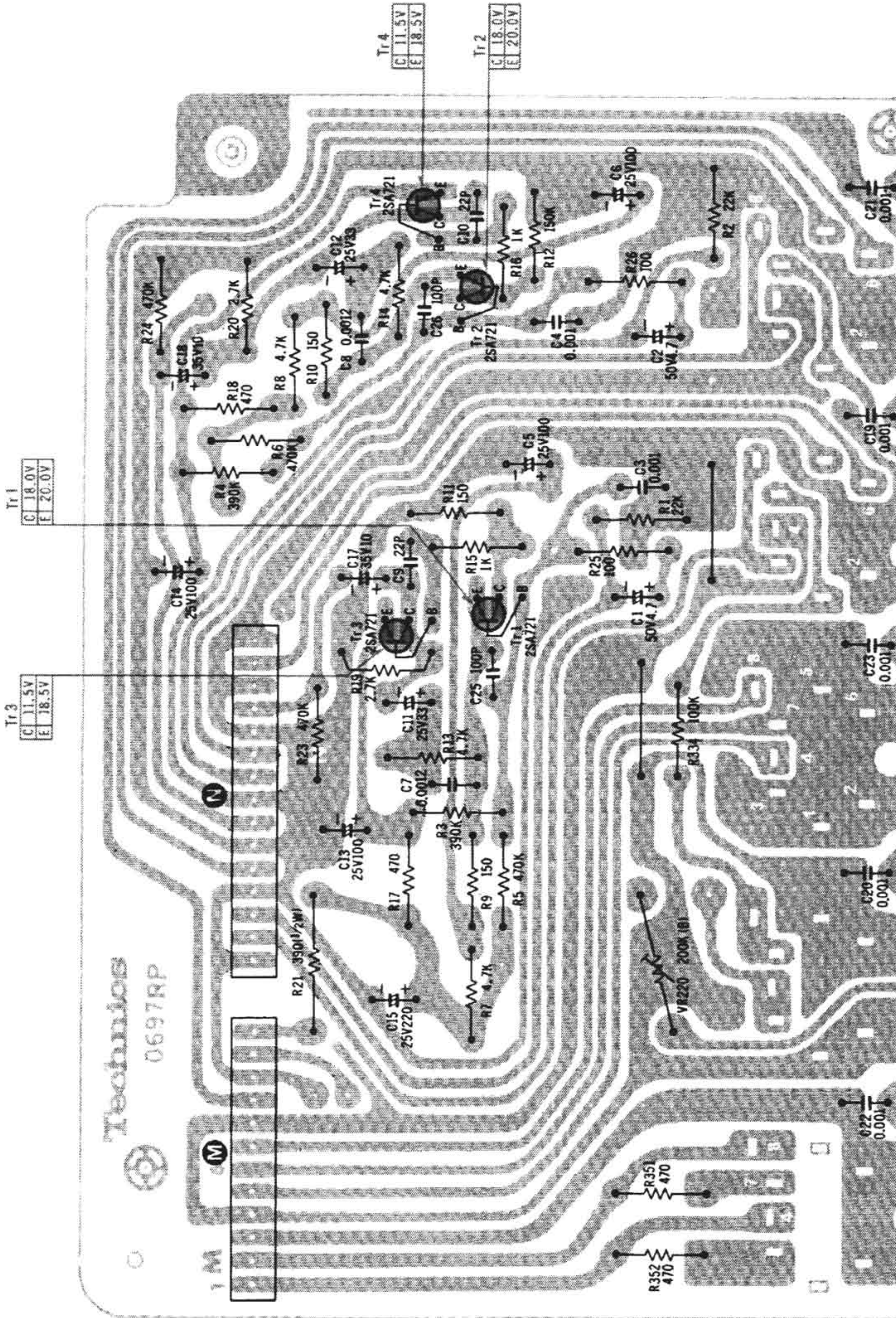
The upper values should be measured during FM and the lower values during AM (Radio circuit).

CIRCUIT BOARD MODEL RS-9900US

CALIBRATOR CIRCUIT BOARD



JACK CIRCUIT BOARD



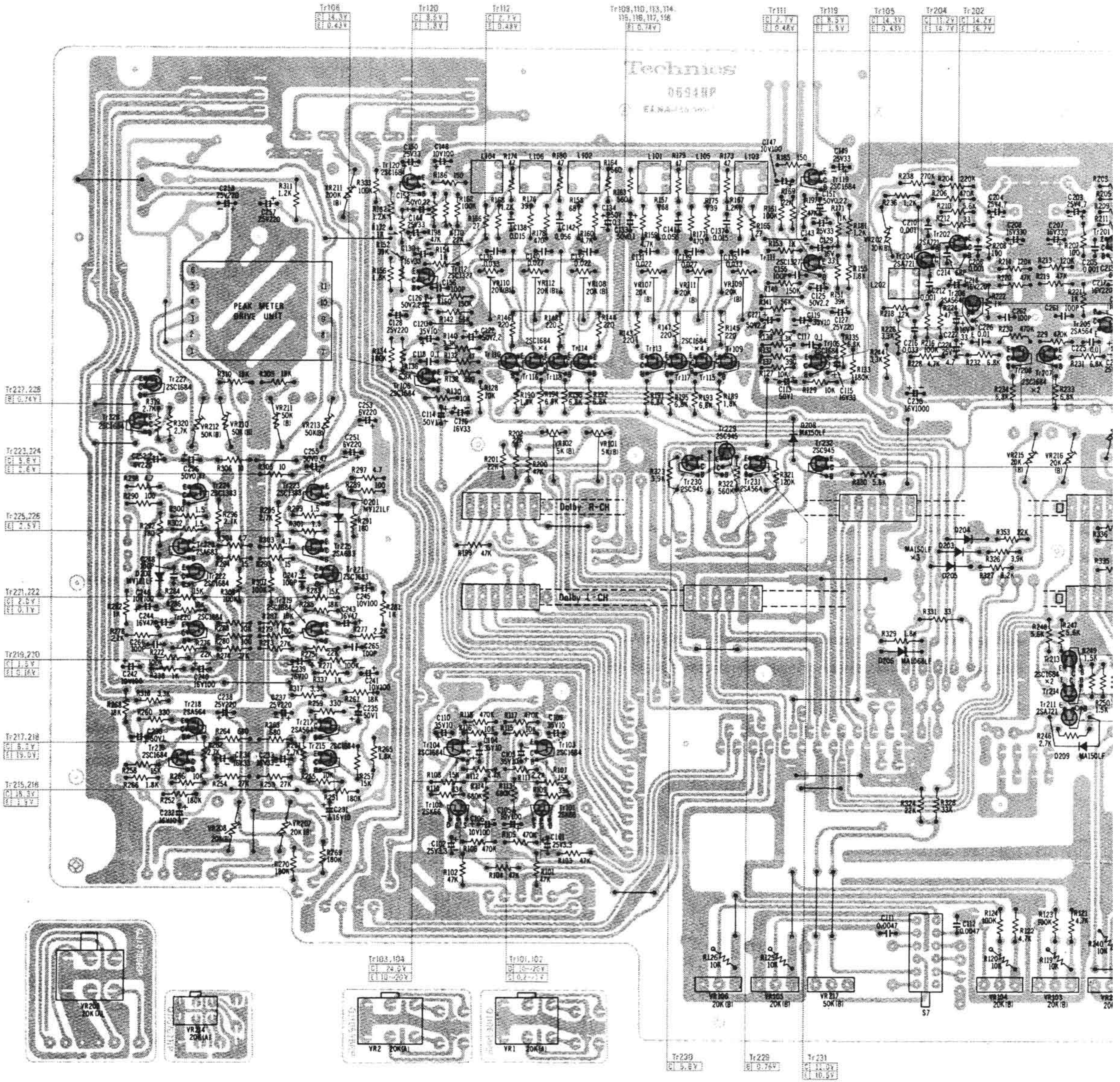


The circuit shown in red on the conductor is B circuit.
Values indicated in [] are DC voltage between the chassis and electrical parts.
The upper values should be measured during recording and the lower values during playback (Audio circuit).
The upper values should be measured during FM and the lower values during AM (Radio circuit).

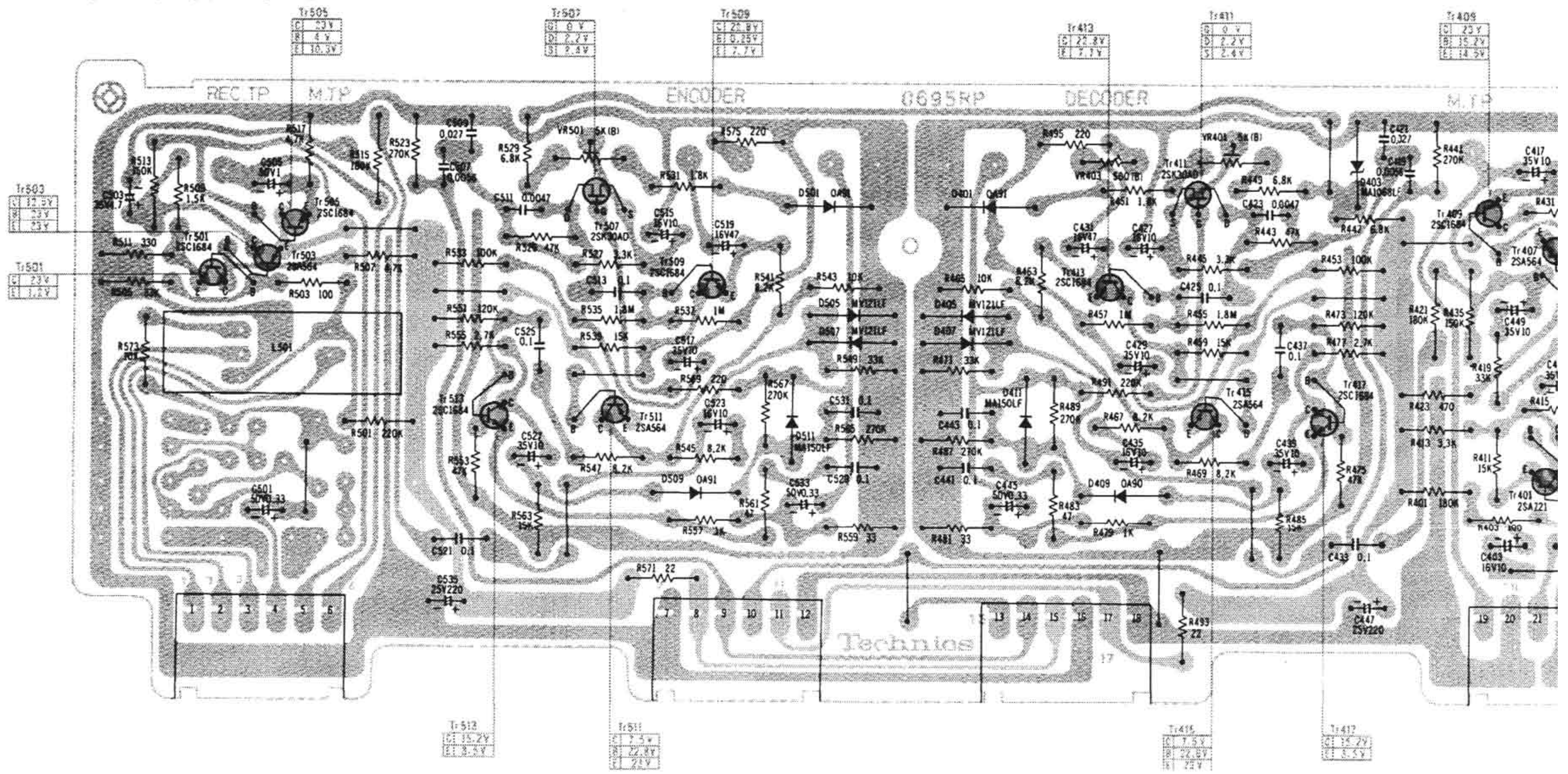
1.604

14803
61564

MAIN CIRCUIT BOARD

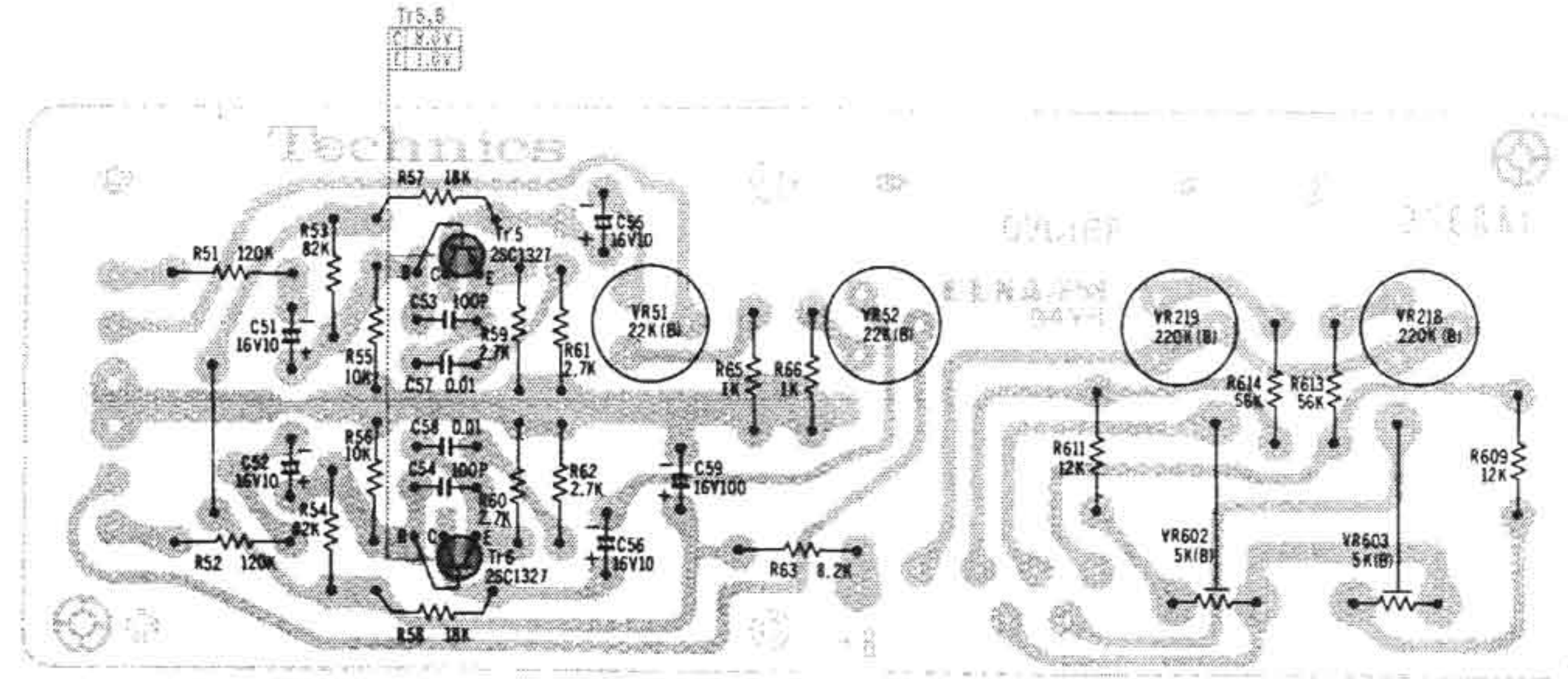


DOLBY CIRCUIT BOARD

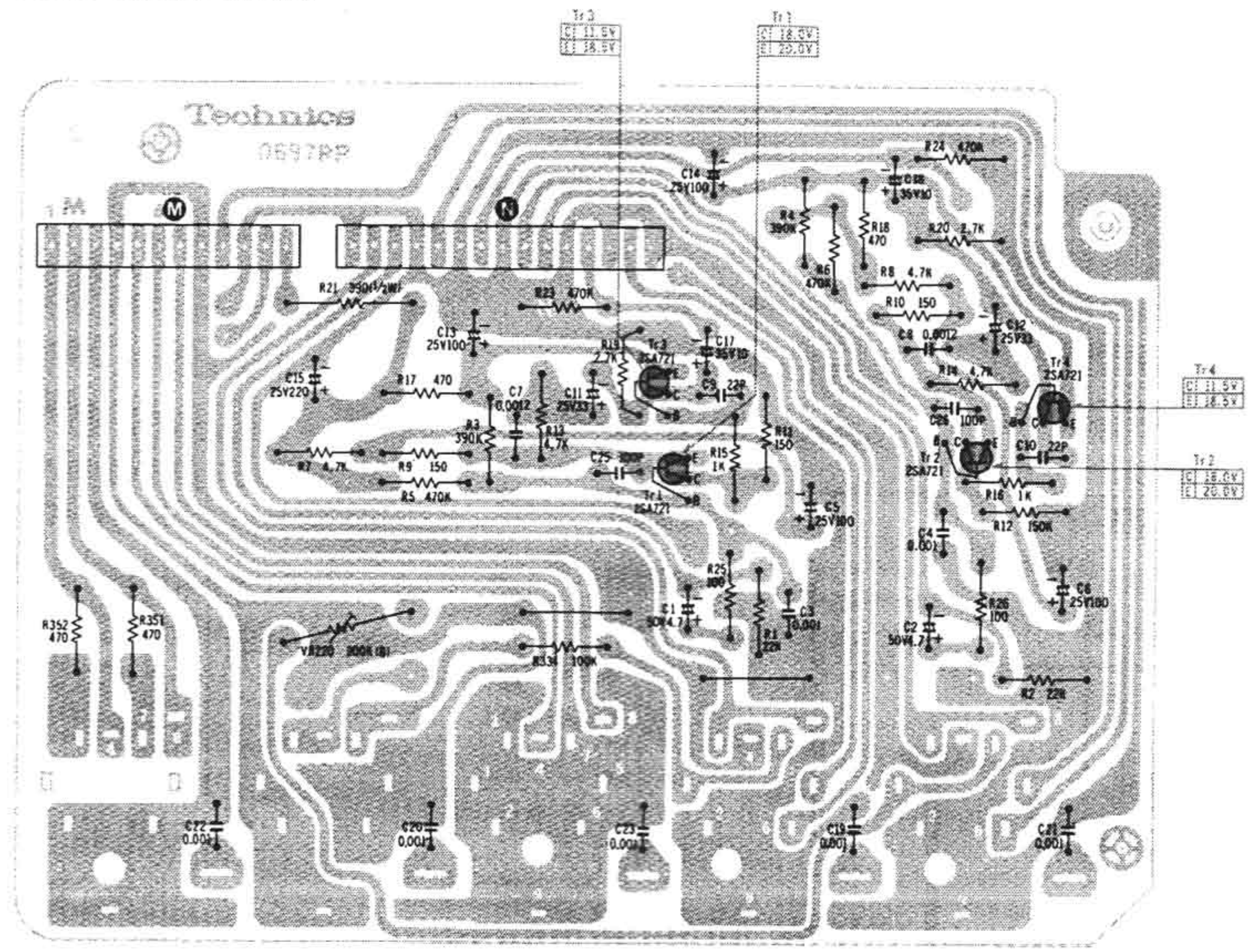


CIRCUIT BOARD MODEL RS-9900US

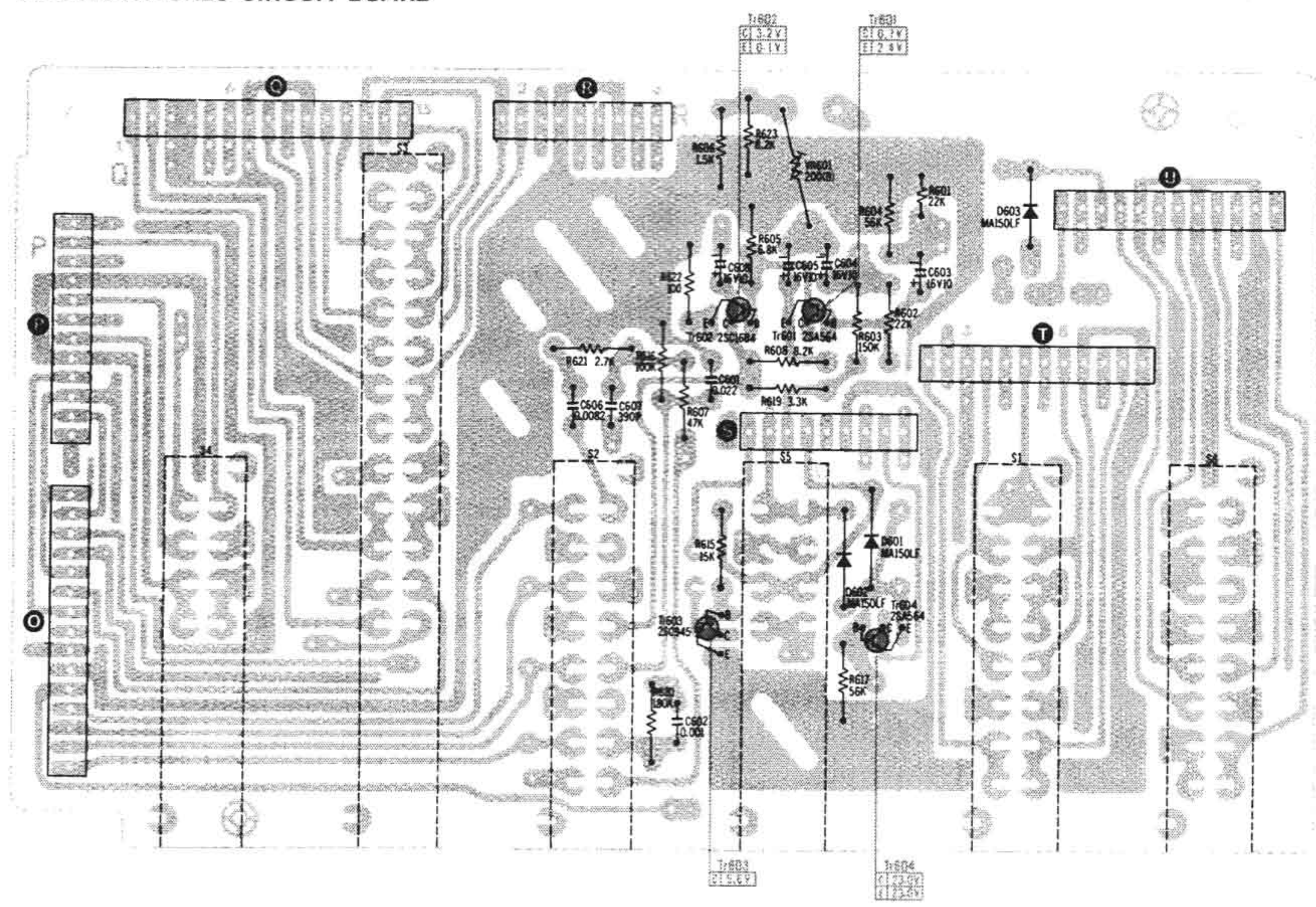
CALIBRATOR CIRCUIT BOARD



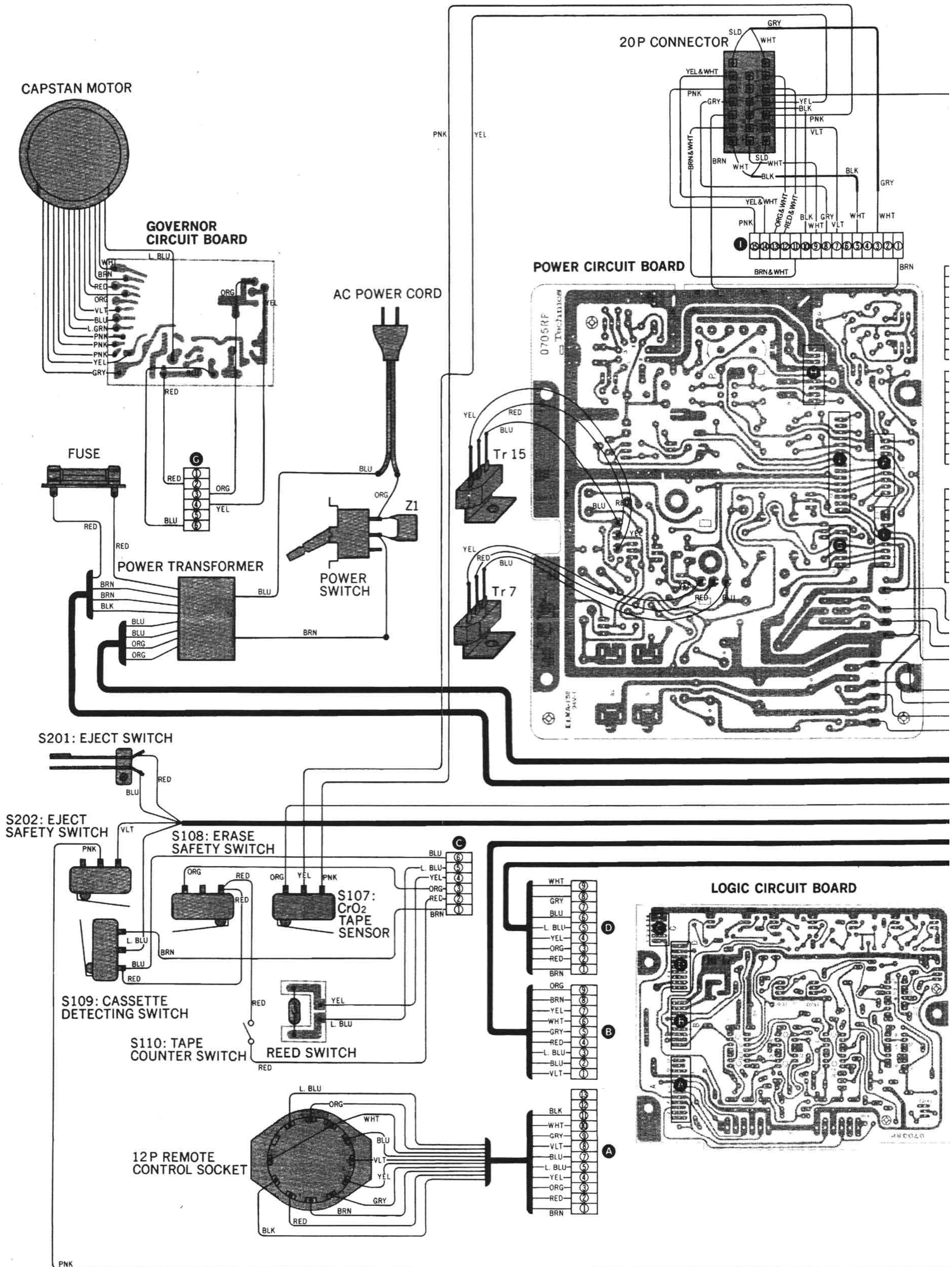
JACK CIRCUIT BOARD



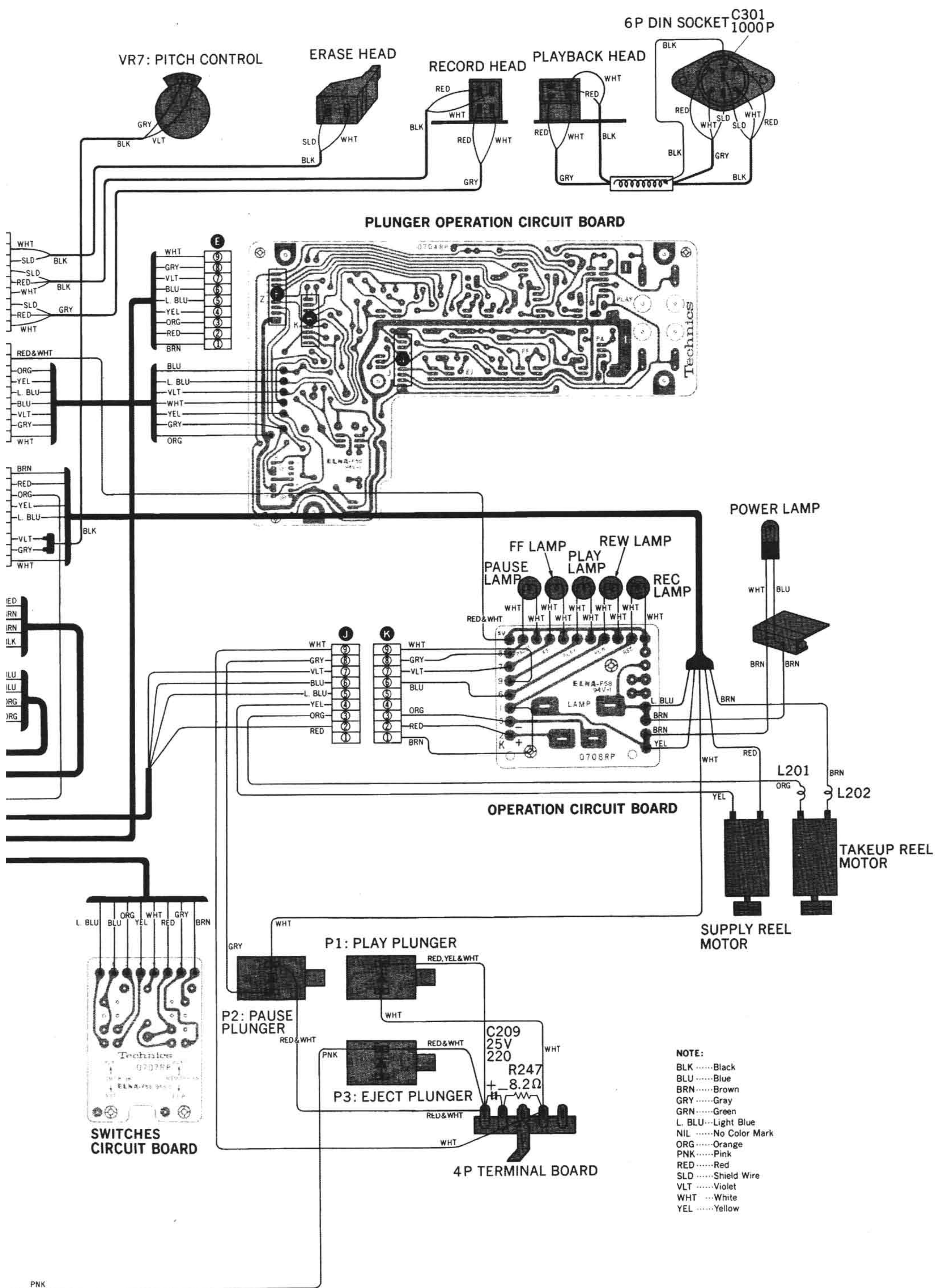
LEVER SWITCHES CIRCUIT BOARD



NOTE:
The circuit shown in red on the conductor is B circuit.
Values indicated in are DC voltage between the chassis and electrical parts.
The upper values should be measured during recording and the lower values during playback (Audio circuit).
The upper values should be measured during FM and the lower values during AM (Radio circuit).

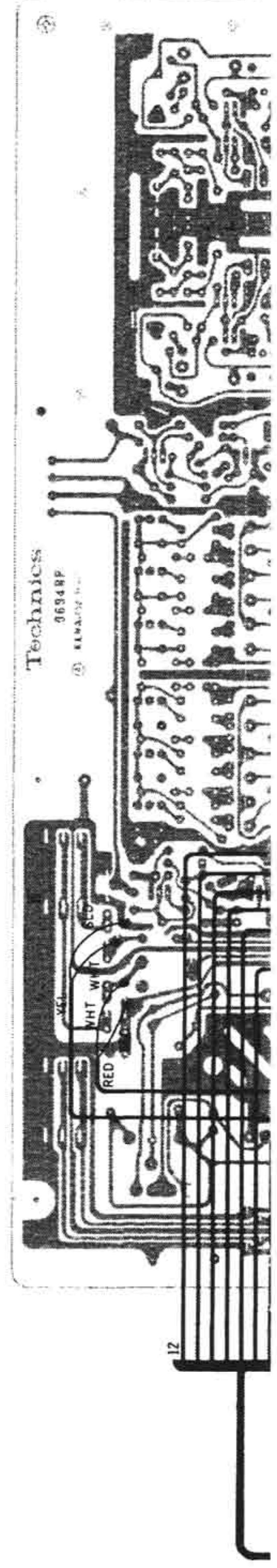
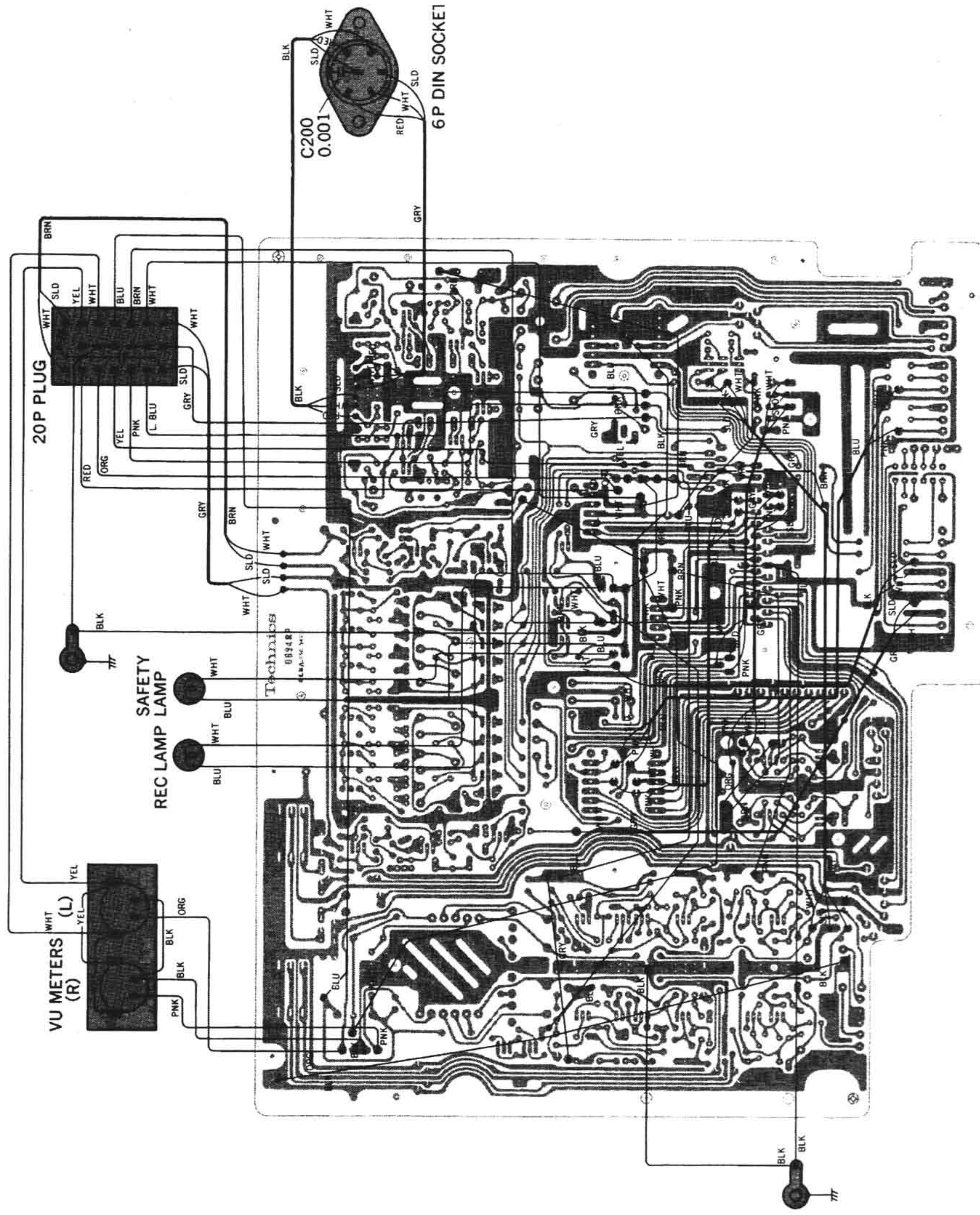


WIRING CONNECTION DIAGRAM MODEL RS-9900US



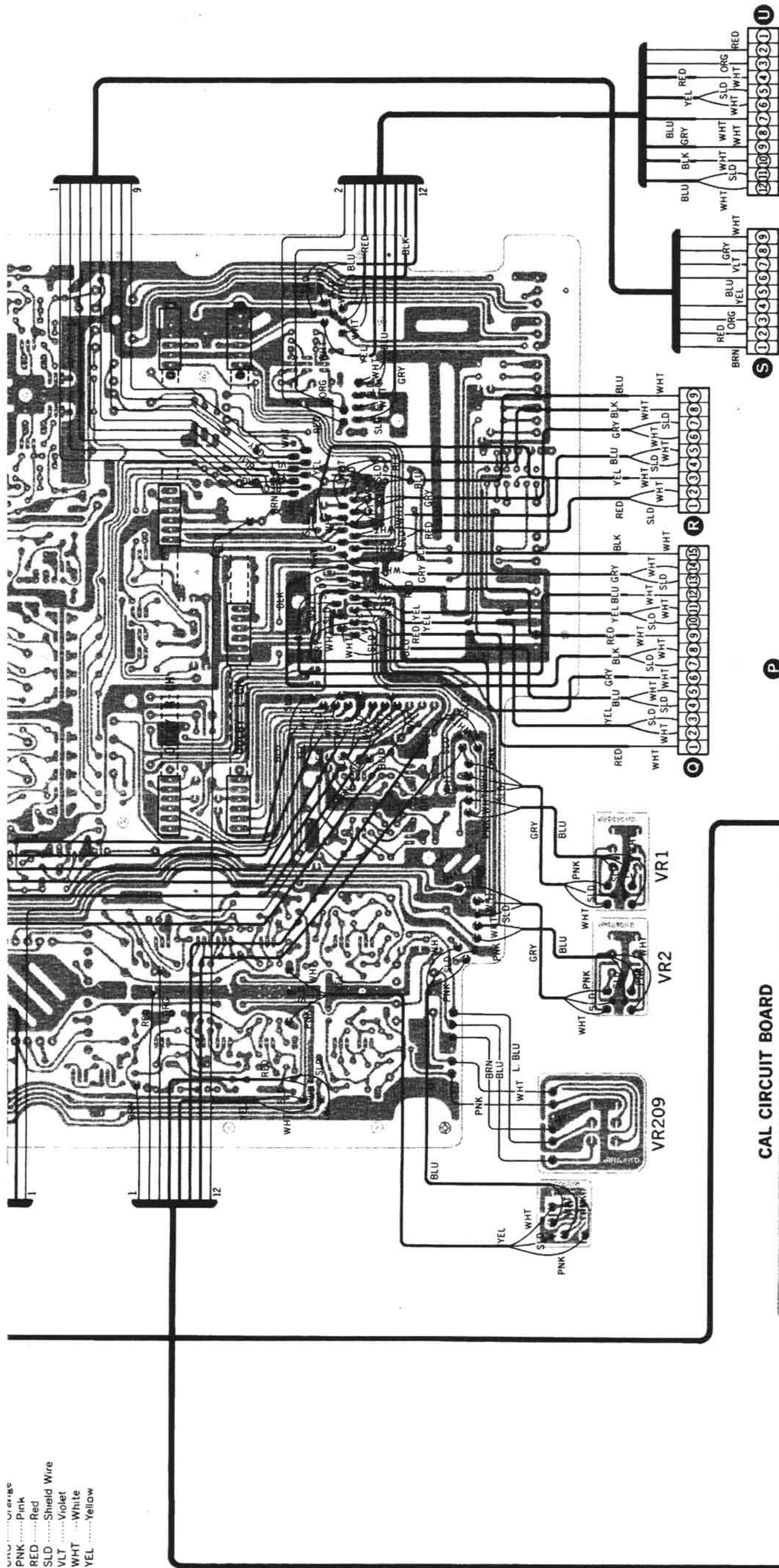
AMPLIFIER UNIT

WIRING CONNECTION DIAGRAM MODEL RS-9900US

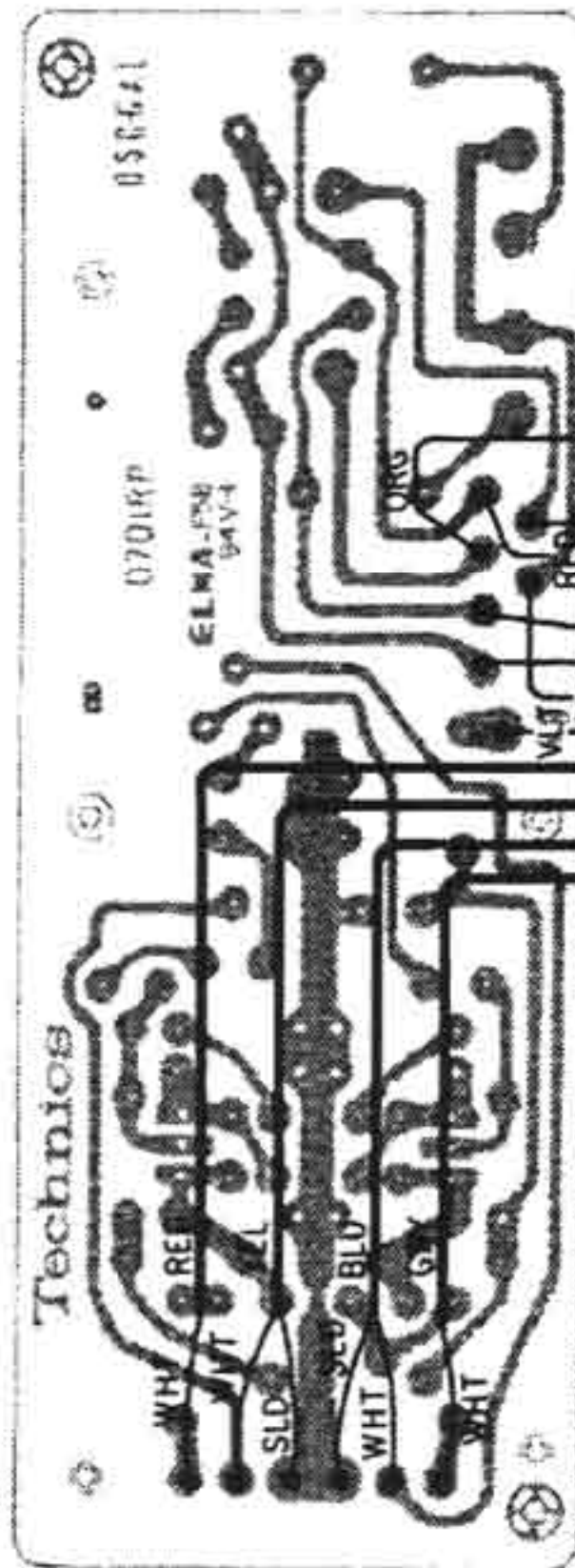


NOTE:
 BLK Black
 BLU Blue
 BRN Brown
 GRY Gray
 GRN Green
 L. BLU Light Blue
 NIL No Color Mark

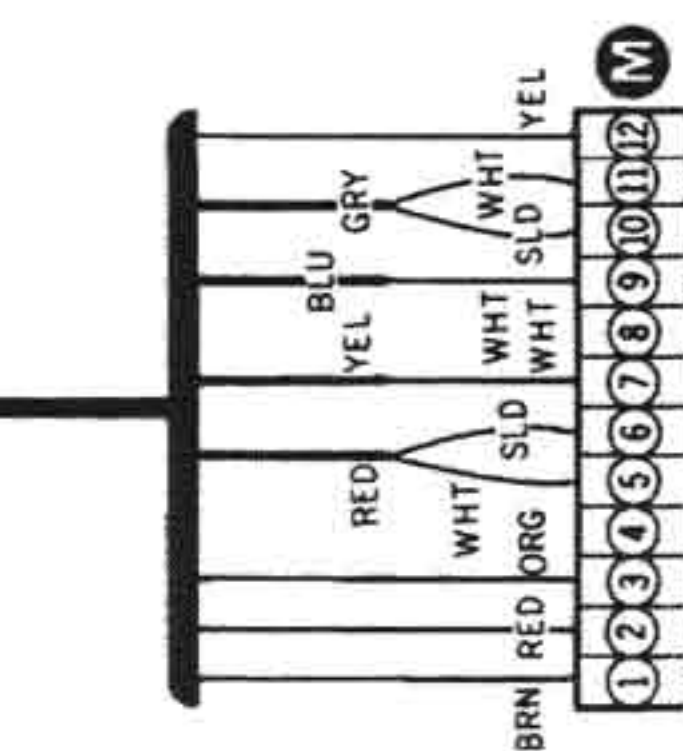
ORGOrange
 PNKPink
 REDRed
 SLDShield Wire
 VLTViolet
 WHTWhite
 YELYellow



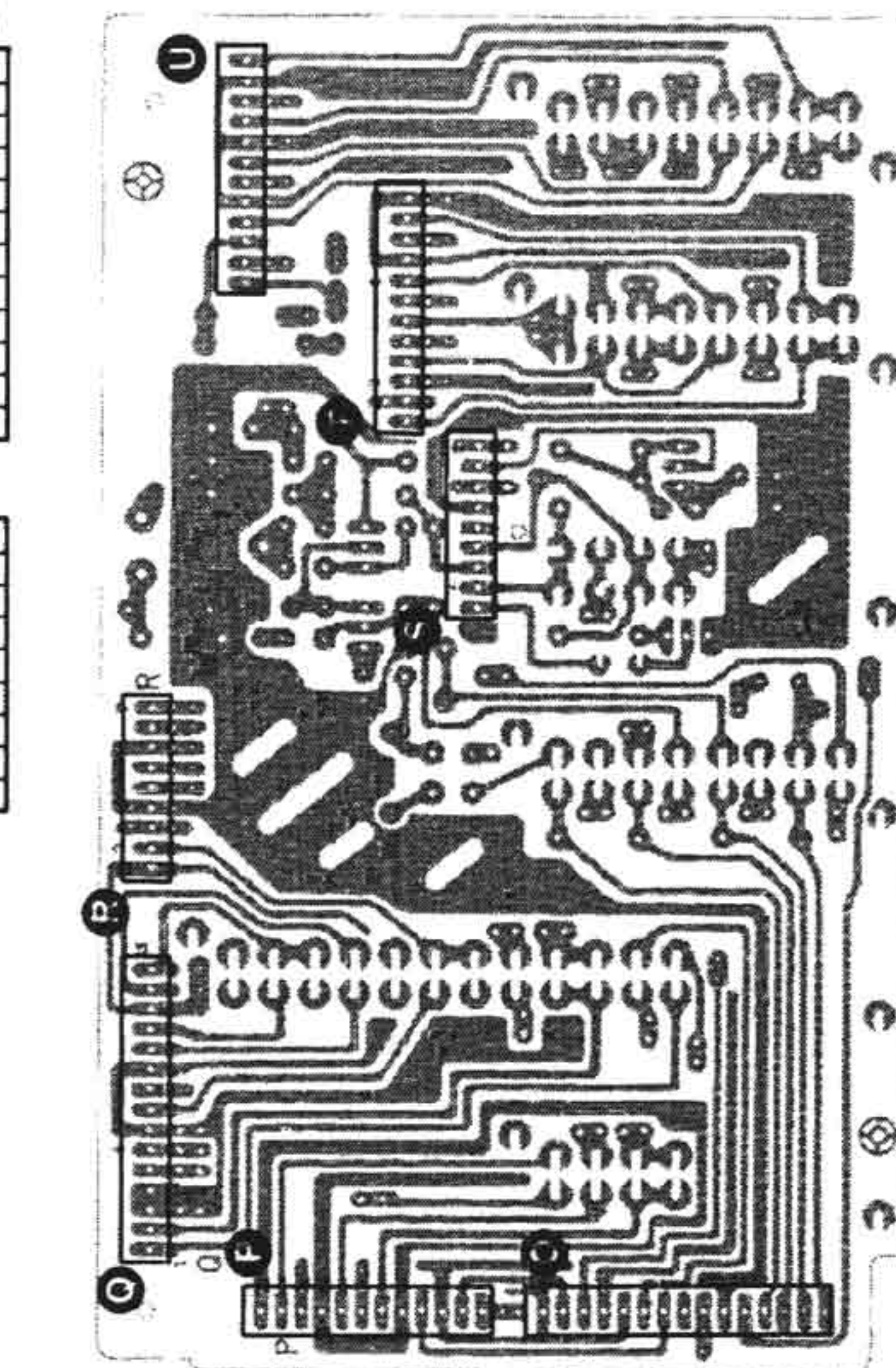
CAL CIRCUIT BOARD



JACK CIRCUIT BOARD



LEVER SWITCHES CIRCUIT BOARD



LEVER SWITCHES CIRCUIT BOARD

